

PATENT
APPLICATION 10/676,485
ATTORNEY DOCKET 1014-041

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of increasing the a quality of streamed media information, comprising:
streaming media information from a media server to a user device;
storing a copy of the media information in a storage device not directly connected to the media server, the media information having-missing information specified to be comprised by the media information, the copy automatically requested responsive to a user request for the media information, the user request for a first version of the media information associated with a first bandwidth, the copy being a second version of the media information associated with a second bandwidth;
sending a request to the media server for the missing information specified to be comprised by the media information, the request responsive to an automatic determination that network congestion is below a predetermined threshold;
receiving the missing information specified to be comprised by the media information;
and
storing the missing information specified to be comprised by the media information in the copy of the media information in the storage device.
2. (Currently Amended) The method of claim 1, further comprising:
identifying one or more versions of the media information stored in the storage device that have ~~are~~ missing information specified to be comprised by the media information; and
performing the sending and receiving steps for each of the one or more versions of the media information.
3. (Currently Amended) The method of claim 2, wherein identifying one or more versions of the media information includes at least one of determining if a list of missing data packets is

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associated with the one or more versions of the media information and determining if a missing data packet ~~flag~~flag is set.

4. (Currently Amended) The method of claim 1, wherein sending a request to the media server includes identifying the missing data packets in the media information and sending a request for only the identified missing data packets.
5. (Original) The method of claim 1, wherein sending a request to the media server includes requesting transmission of the entire media information.
6. (Original) The method of claim 5, wherein storing the missing information includes rewriting the entire retransmitted media information over the copy of the media information in the storage device.
7. (Original) The method of claim 5, wherein storing the missing information includes:
storing the entire retransmitted media information in the storage device;
comparing a number of missing data packets in the entire retransmitted media information with a number of missing data packets in the copy of the media information; and
retaining either the entire retransmitted media information or the copy of the media information in the storage device, whichever has fewer missing data packets.
8. (Original) The method of claim 1, wherein the media information includes at least one of video and audio information.
9. (Currently Amended) The method of claim 1, wherein the missing information ~~is~~specified to be comprised by the media information is identified while the media information is streamed from the media server to the user device.
10. (Original) The method of claim 9, wherein the sending a request, receiving the missing

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information and storing the missing information steps are performed immediately upon identification of the missing information.

11. (Currently Amended) The method of claim 9, wherein the sending a request, receiving the missing information and storing the missing information steps are performed periodically ~~or when a network congestion level is below a predetermined threshold.~~
12. (Currently Amended) An apparatus that increases ~~the a~~ quality of streamed media information, comprising:
a controller; and
a storage device not directly connected to a media server, wherein media information is streamed from the media server to a user device and a copy of the media information is stored in the storage device, the copy automatically requested responsive to a user request for the media information, the user request for a first version of the media information associated with a first bandwidth, the copy a second version of the media information associated with a second bandwidth, the media information having missing information specified to be comprised by the media information, and wherein the controller sends a request to the media server for the missing information specified to be comprised by the media information, receives the missing information specified to be comprised by the media information, and stores the missing information specified to be comprised by the media information, in the storage device, the request responsive to an automatic determination that network congestion is below a predetermined threshold.
13. (Currently Amended) The apparatus of claim 12, wherein the controller identifies one or more versions of the media information stored in the storage device ~~that have missing~~ information specified to be comprised by the media information and sends the request for each of the one ~~ore or~~ more versions of the media information.
14. (Original) The apparatus of claim 13, wherein the controller identifies one or more versions of the media information by at least one of determining if a list of missing data packets

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is associated with the one or more versions of the media information and determining if a missing data packet flag is set.

15. (Currently Amended) The apparatus of claim 12, wherein the controller sends ~~a~~the request to the media server by identifying missing data packets in the media information and ~~sending a~~the request is for only the identified missing data packets.
16. (Currently Amended) The apparatus of claim 12, wherein the controller sends ~~a~~the request to the media server by requesting retransmission of the entire media information.
17. (Currently Amended) The apparatus of claim 16, wherein the controller stores the missing information specified to be comprised by the media information in the storage device by rewriting the entire retransmitted media information over the copy of the media information in the storage device.
18. (Currently Amended) The apparatus of claim 16, wherein the controller stores the missing information specified to be comprised by the media information in the storage device by:
storing the entire retransmitted media information in the storage device;
comparing a number of missing data packets in the entire retransmitted media information with a number of missing data packets in the copy of the media information; and
retaining either the entire retransmitted media information or the copy of the media information in the storage device, whichever has fewer missing data packets.
19. (Original) The apparatus of claim 12, wherein the media information includes at least one of video and audio information.
20. (Currently Amended) The apparatus of claim 12, wherein the controller identifies the missing information specified to be comprised by ~~in~~ the media information while the media information is streamed from the media server to the user device.

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21. (Currently Amended) The apparatus of claim 20, wherein the controller sends the request, receives the missing information specified to be comprised by the media information and stores the missing information specified to be comprised by the media information immediately upon identification of the missing information.
22. (Currently Amended) The apparatus of claim 20, wherein the controller sends the request, receives the missing information specified to be comprised by the media information and stores the missing information specified to be comprised by the media information periodically ~~or when a network congestion level is below a predetermined threshold~~.